

**SELF-MONITORING MECHANISM IN FAULT-TOLERANT DISTRIBUTED
DYNAMIC NETWORK SYSTEMS**

ABSTRACT OF THE DISCLOSURE

A fault-tolerant server group operating in client-server distributed dynamic network system environment includes a master server and at least one back-up server. The master server registers its mastership in a name server. The master server communicates with the client and the back-up servers. Each server in the fault-tolerant server group has a self-monitoring mechanism, ensuring a consistent mastership. The fault-tolerant server group processes the request from the client to generate a processing result. The processing result is sent from the master server to the client.